

**Abstract**

The invention relates to the recovery of deoxy sugars, such as fucose from biomass-derived solutions, such as spent liquors obtained from pulping processes. The invention is based on the use of chromatographic fractionation with specific column packing materials and combinations thereof. The deoxy sugar product obtained from the chromatographic fractionation may be further purified by crystallization. The invention also provides a novel crystalline fucose product and a novel process for the crystallization of fucose.